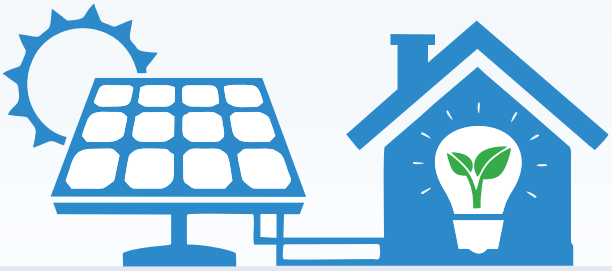
EXULTED®

SOLAR SMART INVERTER

Available in
1000VA - 15000VA

CHARGING COMPATIBLE FOR GEL, SMF & TUBULAR BATTERY



- SOLAR ADVANCE PROTECTION
- FUNDAMENTAL THERMAL PROTECTION
- POWERFUL CHARGING FOR LOW VOLTAGE
- 50AMP SOLAR CHARGER CONTROLLER
- NO HUMMING NOISE
- INTELLIGENT CHARGING SHARING

FEATURES

- DSP based Pure Sine wave Output.
- Configurable critical Parameters.
- Inbuilt highly efficient PWM Solar Charge Controller.
- Various Solar Priority selection modes for better performance.
- Preference for maximum Solar Utilization.
- System can operate without Solar PV Panel.
- Charging Compatible for GEL, SMF & Tubular Battery.
- Safe Protection in Output Short-circuit & reverse Phase and PV reverse.

TECHNICAL SPECIFICATION

System Rating		1000VA	1350VA	1800VA	2500VA	3500VA
Normal Input Battery Voltage		12V		24V		
Maximum PV Power		850Wp		1700Wp		1700Wp
PV Range		16VDC - 25VDC		31VDC - 45VDC		32VDC - 50VDC
Solar Charge Controller Ratting		50A/70A				
Solar Charge Controller Type		Inbuilt PWM Charge Controller				
Solar Charge Controller Technology		DSP based Intelligent Battery Charging & Charge Sharing with Grid				
AC Input Voltage		100Vac ~ 300Vac (STANDARD RANGE) / 180Vac ~ 260Vac (UPS RANGE) ± 5V				
AC Input Voltage Frequency		50Hz ± 10%				
Output Waveform		PURE SINEWAVE on Backup Mode (Battery / Solar)				
Patameters Confrigurable from LCD		Factory Setting		Variable Range		
Grid Charging Boost Voltage Each Battery		14.4V		13.8V - 15V		
Battery Low Cut Voltage Each Battery		10.6V		10.4V - 11.5V		
Solar battery Low Cut Voltage Each Battery		12V		11.5 - 12.5V		
Solar Charging Current		30		5A - 50A		
Grid Charging Current		15A		5A - 20A		
Recommended Battery Charging Voltage	SMF/GEL	13.8V - 14.0V				
	TUB	14V - 14.4V				
Grid Recconect Volatge Range	SMF/GEL	12.0V - 12.2V				
	TUB	11.5V - 12.5V				
Changeover Time		≤ 10 Miliseconds on UPS Mode and ≤ 30 Miliseconds on Normal Mode				
Output Voltage		220V ± 10V No load to Full load.				
Battery Low Response		Battery low shutdown after 4 times auto retries with alarms.				
Overload Response		Battery low shutdown after 6 times auto retries with alarms.				
Protections		Output Over Load / Battery Low / Battery Rev. Polarity / Battery Over Discharge / Output Short Circuit / Revrse Phase / Over Heating / Revrse Solar PV				
LED & Switches		System on / UPS Mode on / Solar Priority mode / SMF-Tubular Battery Charging				
Display		Input Voltage / Solar On / PV Voltage / PV Current / PV Revrse / Solar KWh / Battery Voltage / Output Voltage / Overload / UPS ON / Load % & Actual Watt / Short Circuit / Termal Trip / Battery Loose Connection / Fuse Blown				
Operating Temperature		0-50°C				
Cooling		Fan				
Max. Relative Humidity @ 25°C (Non Condensing)		95%				
Noise @ 1meter		50db				
Standard Compliance		IP20				

Solar Inverter Operating Mode		
Hybrid Mode	**PCU Mode Light**	**PCU Mode Ultra**
This mode is recommended where power cut is for very long duration of time. (More than 10 Hrs)	This mode is recommended where Power cut is moderate. (4-5 Hrs)	This mode is recommended where Power cut is very less. (Less than 2 Hrs)

TECHNICAL SPECIFICATION

System Rating		3500VA	5000VA	7500VA	10000VA	15000VA
Normal Input Battery Voltage		48V	96V	120V		240V
Maximum PV Power		3400Wp	5100Wp	8500Wp		15000Wp
PV Range		60VDC - 100VDC	120VDC - 200VDC	150VDC - 250VDC		320VDC - 360VDC
Solar Charge Controller Ratting		50A/70A				
Solar Charge Controller Type		Inbuilt PWM Charge Controller				
Solar Charge Controller Technology		DSP based Intelligent Battery Charging & Charge Sharing with Grid				
AC Input Voltage		100Vac ~ 300Vac (STANDARD RANGE) / 180Vac ~ 260Vac (UPS RANGE) ± 5V				
AC Input Voltage Frequency		50Hz ± 10%				
Output Waveform		PURE SINEWAVE on Backup Mode (Battery / Solar)				
Patameters Confrigurable from LCD		Factory Setting		Variable Range		
Grid Charging Boost Voltage Each Battery		14.4V		13.8V - 15V		
Battery Low Cut Voltage Each Battery		10.6V		10.4V - 11.5V		
Solar battery Low Cut Voltage Each Battery		12V		11.5 - 12.5V		
Solar Charging Current		30		5A - 50A		
Grid Charging Current		15A		5A - 18A		
Recommended Battery Charging Voltage	SMF/GEL	13.8V - 14.0V				
	TUB	14V - 14.4V				
Grid Recconect Volatge Range	SMF/GEL	12.0V - 12.2V				
	TUB	11.5V - 12.5V				
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